192 BYTES

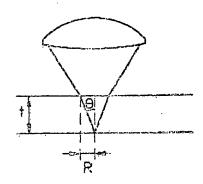
PO(16BYTES)

PRIOR ART

FIG. 1

		172 E	BYTES			PI	(10 BA	150)
- -	Bo.o [B _{0,1}	6 9 9	Bc,170	Bo,171	B0,172	e & 0	Bo,181
	B _{1,0}	B _{1.1}	• • •	B _{1,170}	B _{1,171}	B _{1,172}	030	B1,181
	B2,0	B _{2,1}	9 3 0	B _{2,170}	B2,171	B2,172	6 6 0	B _{2,181}
		2 D 6		9	6 B 6	d 5	9 C 0	9
	Ð _{189,0}	B _{189,1}	a • a	B189,170	B189,171	B189,172	* 0 0	B189,181
	6,0e1B	B190,1	2 9 1	B190,170	B130,171	B190,172	e e e	B190,181
	B191,0	B191,1	# G 10	B191,170	B191,171	B191,172	600	B191,181
	H192,0	B _{192,1}	<u>.</u>	B192,170	B; 92, 170	B _{192,172}		B192,101
	ĝo o ●	2 7 5	0 2 0		0 0 0	8 5 6	C & +	9 4 1
	B207,0	B207,1		B207,170	B207,171	B207,172	0 0 0	B207,181

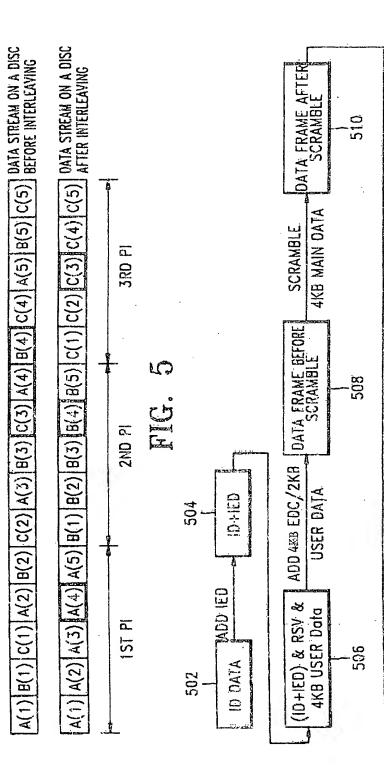
PRIOR ART FIG. 2



PO - MROWS PARITY 2ND DATA — MROWS FRAME DATA — HROWS DATA - MROWS ISI PI PARITY BYTES SYTES BYTES - X . • • : : . . • • • • • x-Ih PI PARITY

TIC

FIG. 4



PHYSICAL BLOCK (16 FRAMES)

INSERTION

RECORDING BLOCK (16 FRAMES)

COLUMN INTERLEAVE OF PI

SINGLE PO ENCODING

ERROR CORRECTION BLOCK (16 DATA FRAMES AFTER SCRAMBLE)

512

4 WAY PI ENCODING DATA INTERLEAVE,

SYNC

516

(i)

FIG. 6

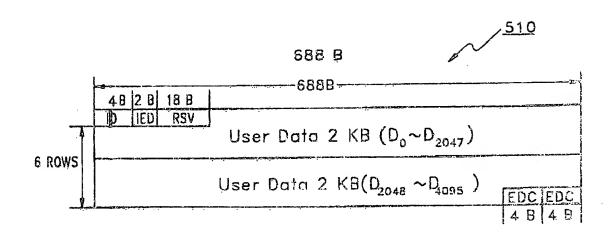
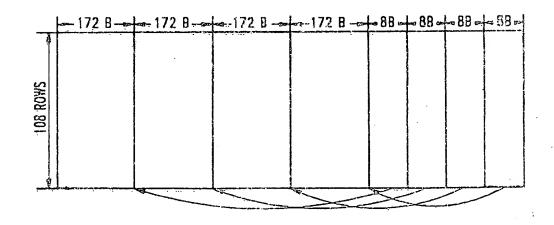


FIG. 9



12	PD RO	WS.		16	DAT. 96	A FR ROW		S		
8,07,0	ė. 0	8.96,0	B 95,0	B 94,0	B93,0	4 0 4	B _{2,0}	B1,0	B0,0	
•		:	• • •		3 9	, . 0 0	0	:	0 0	172B
B107,171	g 5	B 96,171	B 95,171	B 94,171	B 93,171		B2,171 B2,172	B1,171	B 0,171	8
B107,171 B107,172 B107,343 B107,344 B107,515 B107,516 B107,687	*0	B 96,171 B 96,172	B95,171 B95,172 B95,343 B95,344 B95,515 B95,516	· B94,171 B94,172 · B94,343 B94,344 · B94,515 B94,516	··· B 93,171 B 93,172	. a a	B2,172	B1,172	B0,172	
•	\$ 649	;			0		0 0	0 4	- CO	1728
B107,343	3. G. B.	B 96,343	B 95,343	B 94,343	B 93,343	• • •	B2,343	B1,343	Bo,343	Œ
B107,344	é ds	··· B 96,343 B 96,344	895,344	B 94,344	B93,343 B93,344 ···		B2,344	B1,344	B0,344	
	*		2	:			•	6	;	1728
B107,515	*	B96,515 B98,516	B95,515	B94,515	H93,515	9 4 0	B _{2,515}	B1,515	Bo,515	(C)
B107,516	Q. 67.20	B95,516	B95,516	B94,516	H93,515 B93,516	a o o	Bz,516	B1,516	Bo,516	
4	i	•	a	:		;		0 4 4	:	1728
B107,687	8	396,687	B 95,687	В 94,687	B 93,687	9 3 5	B2,687	B1,687	B0,687	



FIG. 7B

15	0_	1ST PI 8B	2NI	0	2ND PI 8B	3RC	<u>P</u>	3RD PI 88	411		4TH PI 8B
Bo,688		Be,895	В0,696	9	Bo,703	Ba,704	÷	B 0,711	B0,712	:	80,719
B1,688	8 E &	B1,695	959'\G		B1,703	B1,704		B1,711	B1,711 B1,712		81,719
B2,688	9 0	B2,695	B2,596	: .	B2,703	B2,704	D	B2,711	82,712		82,719
9 9 5	:	D 30	ة د م نسند	b o	5 6	* b o	9	***************************************	. u e		0 0 0
B93,588	?	8 93,695	B93,695 B93,696	;	893,703	B-93,704		B.93,711	B93,703 B93,704 B93,711 B93,712	0	893,719
B94,688	9	B34,695 B34,696	894,696	3 11	B94,703 B94,704 ···	B94,704		B 94,711	B94,712	0	894,719
995,688	•	895,695	95,696		B95,695 B95,696 ··· B95,703 B95,704 ···	895,704	ö	8.95,711	895,711 1895,712		B95,719
B36,688		896,695	896,696	9	B96,695 B96,696 B95,703 B95,704 B96,711	B 95, 704	:	B 96,711	B95,712 ···	:	8 36,719
0	2	B G D		17 g a		Compared to the compared to th	7.4.0		B C B C TO	0.7.0	A P D
B107,688	.400	81.07,695	8107,896	•	B107,703	Bt07,704		B107,711	B _{107,712}	y ,	B107,688 B107,595 B107,396 B1.07,703 B107,704 B1.07,711 B107,712 B107,719

FIG. 8A

6888

12	ROV	VS_			96	ROW:	<u>S</u>			1
		8.96,0	B 95,0	B94,0	B 93,0		B2,0	B1,0	90,0	-
B107,172		B 96, 1.72	895,172	B 94, 172	B 95,172	# D •	B2,172	B1,172	B0,172	
B107,0 B107,172 B107,344 B107,516 B107,1 B107,171 B107,343 B107,515 B107,687	•	E 96,172 B 96,344 B 96,516	B95,344	B'94,172 B94,344 B94,516 B'94,1	B95,172 B93,344 B93,516 B93,1	* * * *	B2,344	B1,344	B0,344	
B107,516	e	B36,516	B95,344 B95,516	B94,516	B93,516	n e, •	B2,516	B1,516	B0,516	
B107,1	-	B 96,1	B.95,1	B 94,1		o 4 3	B2,1	B _{1,1}	B0,1	
	:		:	*	•	3	•		•	
B107,171	•	B 96,171	B.95,171	B 94, 171	B 93,171		B2,171	B1,171	B0,171	
B107,343		B 96,171 B 96,343	B 95,343	B 94,343	··· B 93,171 B 93,343 B 93,515	e e o	B _{2,343}	B1,343	Bo,343	
B107,515	٥	B 56,515 B 96,687	B.95,171 B95,343 B95,515 B95,687	B94,171 B94,343 B94,515 B94,687	893,515	, • a	B2,515	B1,515	Bo;515	
B107,687	a 4	B96,687	B95,687	B 94,687	B93,687	d e is	B2,687	B1,687	80,687	-
	<u> </u>		·		·					•

FIG. 8B

B107,71	Braz, 688 Bioz, 636 Bioz, 704 Bioz, 712 Bioz, 689 Bioz, 711 Bioz, 719		B107,689	B107,712	B107,704	Bi07,636	Bro7,688
	9						The Contact and the Contact an
B96,71	B 96,711 B 96,719		B.96,689	B 95,712	B95,704	B96,696	B95,688
B 95,71	B 95,711 B 95,719	0 0	B.95,689	B95,704 B95,712	B95,704	B 95, 696	8.95,688
B94,71	B 94,711 B 94,719	° ° °	B 94,689	B94,535 B94,704 B94,712 B94,689	B94,704	D 94,895	B.94,688
B93,719	B 93,711	;	B 93,889	B93,704 B93,712		B93,696	មិនរ,688
ç • •	a 9 0				• • •	e e a	
B2,719	B-2,711	:	B2,689	B2,712	B2,704	.B2,696	B 2,688
B1,719	B1,711	6	B1,689	81,712	B1,704	B1,696	81,688
B0,719	B0,711	3 6 7	B0,689	B0,712	Bo;7¢4	B0,696	B0,688
				328			

FIG. 10A

			•								RE	COR	DING	FRA	ME	i	
Bi 07, 43	B95,0	THE PERSON NAMED IN	891,0	B 90,0	• • •	B6,120	9,11.0	• • •	B 7.0	B 6,0	B 96,0	B 5,0	• • •	81,0	Bo.0		
B107,215	B95,172		B91,172	B 90,172	• • •	B 96,301	511,172		B 7,172	B 6,172	B 96, 172	B 5,172		81,172	80,172		_
			-		:	-		:	;	:	[:	:	:	:			728
8107,129	B95,386		B'91,338	B 90,386	,	B95,515	B11,386		S. 7,386	8,386	B 96,386	B 5,386		B1,386	Bo,386		
8107,129 8107,501	895,558		B91,588	B 30,558	v	B 95,687	B11,558		8 7,556	8 6,558	855'96	B 5,556		81,558	B0,558		
B;07,690	in CD		B91,688	8 90,688		898,894	811,688	» ° 4	B 7,688	H 5,589	889,688	8 5,688	• • •	B 1, 688	Во, вев		
B107,690 B107,698	B95,696		891,696	B 90,696		B 96,702	B11,696		B 7,695	B 6,698	B96,696	B 5,636	, . .	81,696	80,696		
	:	:	1	1:	:	:	[:		•	:					i		88
B107,707	25		B91,705	8 90,705		B 96,711	B 11,705		B-7,705	8 6,705	8 96,705	E 5,705		B1,705	B0,705		
B107,707 B107,715	B 95,713		B91,713	B 90,713	• • •	B96,719	B11;713	12.000	B 7,713	B 6,713	B96,713	8 5,713		B1,713	B0,713	1	9



11.14

FIG. 10B

_	 												· · · · · · · · · · · · · · · · · · ·			
	.80,715	81,715	• • •	B 5,715	895,715	B 6,715	8 7,715	•	811,715	B97,713		B 30,715	891,715	• • 9	895,715	B107,717
	Во,707	B1,707		B 5,707	896,707	B 6,707	8 7,707		B11,707	B97,735		8 90,707	B31,707	• • •	85,707	B107,709
88	* .	:	:	:	:	:	• • •	:			:	;	•		:	
	Ва,езв	B1,698		B 5,598	В 86, 698	B 6,698	B 7,698	2 t t	B11,698	969,769	• - •	869'058	B 91,598		B95,698	B107,700
	80,690	81,690		069'S B	8 9 6,690	B 6,690	B. 7,690		E11,690	297,688		B'30,690	991,580	,	895,690	3107,692
,	80,601	B 1,601		B 5,601	B 95,601	B 6,601	D 7,601	. , .	B'11,60!	832,558		8 90,601	B91,601		B 95,601.	Biox,472 Biox,644 Biox,692 Biox,700
	Bo,429	B1,429	• • •	8 5,429	8 96,429	B 6,429	B 7,429	• • •	627'118	B 97,386	• • •	B 30,429	831,428	, , ,	H 95,429	Bi 07,472
1728	:	• 0 •	:	:	:	:	:		:	٠		. i		.:.		
7	80,245	B1,245	• • •	B 5,245	836,245	B 6,245	B 7,245		B 11,245	B97,172		B 50,245	B91,245		8 95,245	Bio7,258
	B 0,43	8 1,43		8 5,43	B 96,43	B 5,43	B 7,43.		B 11,43	9 97,0		8 90,43	B 91,43	• . •	B 95,43	B 107,85

FIG. 10C

_	_ ,					,			·	سدر	(·	-	,				سد دنگ
•		80,717	81,717		B 5,717	B96,717	B 6,717	8 7,717		811,717	897,715		B'so,717	B91,717	7	895,717	Blez,718
		80,703	B1,799		8 s,709	B 96,709	B: 6,709	B 7,709	• • •	B 11,709	B 97,707	,	B'30,709	891,709		B 95, 709	Bio7,711 Bio7,718
88			:	:	***			:		:		:	:	;	:		:
		Bo,700	81,700		B 5,700	B 96,700	B 6,700	B. 7,700	i	B 11,700	897,698		8'30,700	B91,760		B 95,700	B107,702
		B _{0,692}	B1,592	a » •	B 5,692	895,692	8 6,692	8 7,692		811,652	8'97,590	• • •	B 90,692	891,652		995,692	Bior, s15 Bioz, 687 Bioz, 694
T.		Bo,644	B1,544		B 5,644	896,644	8 5,644	B 7,644	• • •	B11,644	897,601		B30,644	891,644		895,644	Biez,687
3		Bo,472	B1,472		B 5,472	B.96,472	8 5,472	B 7,472	• • •	B11,472	897,429		B'90,472	B31,472	,	9 95,472	Bio7,515
1728			:	•	::	:	:	•	:	:	:	:					
-		80,258	B1,258	• • •	B 5,258	B 96,258	B 6,258	8 7,258	• • •	911,258	897,215		8'90,258	85,258		B 95,258	B:07,129 B:107,301
		B 0,86	B 1,86	,	98'S B	8.38,85	8 8,86	9 7,86	• • •	ටි 11,85	B 97,43		8 90,85	B-91,85.		8.95,86	B:07,129
-1	3																

EC.

T				1					6			σ,	6		55	
	80,719	B1,719	. , ,	8 5,719		B 5,719	B. 7,719°		B11,719	<u>-</u>	• • •	890,719.	851,719		895,719	ختر بيدن
	B0,711	81,711	• • •	8 5,713		B 6,711	8 7,711	o • •	111/1118		• • •	B 90,711	B 91,711	• • •	8:55,711	
88		:	:	:		:	:	•	, : .	:	• • •	:	* 2 *	:		
	80,702	B1,702	• • •	B 5,702		B 6,702	B 7,702		911,702		• • •	B 90,702	B91,702	•	8 95,702	
	Ba,694	B1,694		B. 5,694·		B 6,694	8 7,694	•••	B:r:1,694			B 90,694	B91,694		895,69 € 🗗	
	Ba,687	B1,687	. , .	8 5,687		8 6,587	B 7,687		B11,687			B 30,687	891,687	• •	855,687	
	B _{0,515}	81,515		8 5,515		B 6,515	B 7,515		811,515			820,515	891;515		B85,515	
1728	:	:	:_	:		•••	;			:	;		:	:	;	
	80,301	B 1,301		B 5,301	B 96,301	В 6,301.	B. 7,301	• • •	B 11,301			B 90,301	8 91,301		8.95,	ماد الله الله
	Bo,129	81,129		B 5,129	B 96, 129	8 6,129	B 7,129		911,129			8 90,129	891,129		B 95, 129	
1	. 	*******	P.4				***************									